

REPORT ON MACHINERY.

No. N.Y. 13708

Received at London Office TUE 24 APR. 1917

Date of writing Report 19 When handed in at Local Office 19 Port of New York
 Date in Survey held at Schenectady N.Y. Date, First Survey 1917 Last Survey 1917
 Reg. Book. Moore & Scott Iron Works No. 110 (Number of Visits 1)
 on the Moore & Scott Iron Works No. 110 Tons Gross _____
 Net _____
 Built at Catland Cal. By whom built Moore & Scott Iron Works When built 1917
 Engines made at Schenectady N.Y. By whom made General Electric Co. when made 1917
 By whom made _____ when made _____
 Registered Horse Power _____ Owners _____ Port belonging to _____
 Shaft Horse Power at Full Power 2600 Is Refrigerating Machinery fitted for cargo purposes _____ Is Electric Light fitted _____

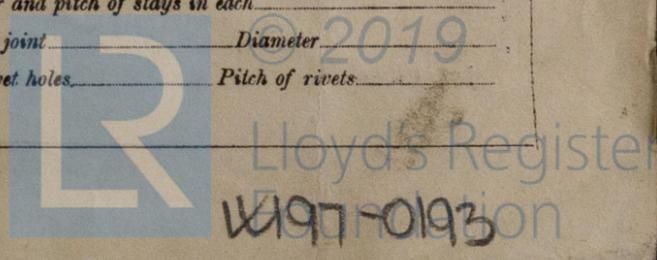
TURBINE ENGINES, &c.—Description of Engines Grand Turbine No. of Turbines One
 Diameter of Rotor Shaft Journals, H.P. 8" L.P. _____ Diameter of Pinion Shaft 7"
 Diameter of Journals H.S. PINION 4" Distance between Centres of Bearings H.S. GEAR 10" Diameter of Pitch Circle H.S. PINION 7.833"
H.S. GEAR 84.666"
 Diameter of Wheel Shaft 14" Distance between Centres of Bearings L.S. PINION 54 1/2" Diameter of Pitch Circle of Wheel L.S. PINION 10.75"
L.S. WHEEL 57.25"
 Diameter of Thrust Shaft under Collars _____ Diameter of Tunnel Shaft _____
 Diameter of same _____ as per rule _____
 Diameter of Propeller _____ Pitch of Propeller _____
 State whether Moveable _____ Total Surface _____ Diameter of Rotor Drum, H.P. _____ L.P. _____
 Revs. per Minute at Full Power, Turbine 3380 Propeller 90

PARTICULARS OF BLADING.

	H. P.			L. P.			ASTERN.		
	ACTIVE HEIGHT OF BLADES.	PITCH DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.	ACTIVE HEIGHT OF BLADES.	PITCH DIAMETER AT TIP.	NO. OF ROWS.
EXPANSION	1.25"	2'-11 1/2"	2				1.25"	2'-3"	2
"	1.25"	3'-9"	1				1.25"	2'-3"	1
"	2.5"	3'-10 1/2"	1						
"	6"	4'-2"	1						

and size of Feed pumps _____
 and size of Bilge pumps _____
 and size of Bilge suction in Engine Room _____
 In Holds, &c. _____
 of Bilge Injections _____ sizes _____ Connected to condenser, or to circulating pump _____ Is a separate Donkey Suction fitted in Engine Room & size _____
 all the bilge suction pipes fitted with roses _____ Are the roses in Engine room always accessible _____
 all connections with the sea direct on the skin of the ship _____ Are they Valves or Cocks _____
 they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates _____ Are the Discharge Pipes above or below the deep water line _____
 they each fitted with a Discharge Valve always accessible on the plating of the vessel _____ Are the Blow Off Cocks fitted with a spigot and brass covering plate _____
 pipes are carried through the bunkers _____ How are they protected _____
 all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times _____
 the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges _____
 the Screw Shaft Tunnel watertight _____ Is it fitted with a watertight door _____ worked from _____

BOILERS, &c.—(Letter for record _____) Manufacturers of Steel _____
 Heating Surface of Boilers _____ Is Forced Draft fitted _____ No. and Description of Boilers _____
 Working Pressure _____ Tested by hydraulic pressure to _____ Date of test _____ No. of Certificate _____
 each boiler be worked separately _____ Area of fire grate in each boiler _____ No. and Description of Safety Valves to _____
 boiler _____ Area of each valve _____ Pressure to which they are adjusted _____ Are they fitted with easing gear _____
 smallest distance between boilers or uptakes and bunkers or woodwork _____ Mean dia. of boilers _____ Length _____ Material of shell plates _____
 thickness _____ Range of tensile strength _____ Are the shell plates welded or flanged _____ Descrip. of riveting: cir. seams _____
 g. seams _____ Diameter of rivet holes in long. seams _____ Pitch of rivets _____ Lap of plates or width of butt straps _____
 percentages of strength of longitudinal joint _____ Working pressure of shell by rules _____ Size of manhole in shell _____
 of compensating ring _____ No. and Description of Furnaces in each Boiler _____ Material _____ Outside diameter _____
 length of plain part _____ Thickness of plates _____ Description of longitudinal joint _____ No. of strengthening rings _____
 working pressure of furnace by the rules _____ Combustion chamber plates: Material _____ Thickness: Sides _____ Back _____ Top _____ Bottom _____
 pitch of stays to ditto: Sides _____ Back _____ Top _____ If stays are fitted with nuts or riveted heads _____ Working pressure by rules _____
 material of stays _____ Diameter at smallest part _____ Area supported by each stay _____ Working pressure by rules _____ End plates in steam space _____
 material _____ Thickness _____ Pitch of stays _____ How are stays secured _____ Working pressure by rules _____ Material of stays _____
 diameter at smallest part _____ Area supported by each stay _____ Working pressure by rules _____ Material of Front plates at bottom _____
 thickness _____ Material of Lower back plate _____ Thickness _____ Greatest pitch of stays _____ Working pressure of plate by rules _____
 diameter of tubes _____ Pitch of tubes _____ Material of tube plates _____ Thickness: Front _____ Back _____ Mean pitch of stays _____
 pitch across wide water spaces _____ Working pressures by rules _____ Girders to Chamber tops: Material _____ Depth and _____
 thickness of girder at centre _____ Length as per rule _____ Distance apart _____ Number and pitch of stays in each _____
 working pressure by rules _____ Steam dome: description of joint to shell _____ % of strength of joint _____ Diameter _____
 thickness of shell plates _____ Material _____ Description of longitudinal joint _____ Diameter of rivet holes _____ Pitch of rivets _____
 working pressure of shell by rules _____ Crown plates: Thickness _____ How stayed _____



SUPERHEATER. Type _____ Date of Approval of Plan _____ Tested by Hydraulic Pressure to _____
 Date of Test _____ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler _____
 Diameter of Safety Valve _____ Pressure to which each is adjusted _____ Is Easing Gear fitted _____

IS A DONKEY BOILER FITTED? _____ If so, is a report now forwarded? _____

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,
E. Dickinson Manufacturer.
 for General Electric Co

Dates of Survey while building { During progress of work in shops -- } Nov. 29 Dec. 11
 { During erection on board vessel --- }
 Total No. of visits _____ Is the approved plan of main boiler forwarded herewith _____
 " " " donkey " " " _____

Dates of Examination of principal parts—Casings _____ Rotors _____ Blading _____ Gearing _____
 Rotor shaft _____ Thrust shaft _____ Tunnel shafts _____ Screw shaft _____ Propeller _____
 Stern tube _____ Steam pipes tested _____ Engine and boiler seatings _____ Engines holding down bolts _____
 Completion of pumping arrangements _____ Boilers fixed _____ Engines tried under steam _____
 Main boiler safety valves adjusted _____ Thickness of adjusting washers _____
 Material and tensile strength of Rotor shaft STEEL 80,000 LBS. PER SQ. INCH MIN. Identification Mark on Do. E.M.S.
 Material and tensile strength of Pinion shaft " 100,000 " " " " " Identification Mark on Do. E.M.S.
 Material of Wheel shaft STEEL Identification Mark on Do. E.M.S. Material of Thrust shaft _____ Identification Mark on Do. _____
 Material of Tunnel shafts _____ Identification Marks on Do. _____ Material of Screw shafts _____ Identification Marks on Do. _____
 Material of Steam Pipes _____ Test pressure _____
 Is an installation fitted for burning oil fuel _____ Is the flash point of the oil to be used over 150°F. _____

Have the requirements of Section 49 of the Rules been complied with _____
 Is this machinery a duplicate of a previous case _____ If so, state name of vessel _____

General Remarks (State quality of workmanship, opinions as to class, &c.) *These engines have been constructed under Special Survey in accordance with the approved plans. The materials and workmanship are sound and good. The engines have been forwarded to Oakland Cal. to be fitted on board.*

(The Surveyors are requested not to write on or below the space for Committee's Minute.)
 Certificates (if required) to be sent to _____

	When applied for.	When received.
The amount of Entry Fee ... £ : :	19	
Special <i>1/2 fee</i> ... £ : :		
Donkey Boiler Fee ... £ : :		
Travelling Expenses (if any) ... £ : :	19	

R. Salma for self & A. Murray
 Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute **New York APR 5 1917**

Assigned *See L. To Rpt. 2476*